

FIG. 2

PRIOR ART

EKT PCM HWY 122,123

302

DATA  
TRANSCIVER AND  
MUX  
(10KB/S)

301

MICROCONTROLLER

307

MULTI-DROP  
ASYNC COMM  
LINK

303

32K x 8 SRAM

TIMESLOT  
COUNTER  
FROM  
100

TIMESLOT  
GENERATION

304

306

ELECTRONIC  
KEY  
TELEPHONE  
INTERFACES

To  
EKT  
phones  
(FIG. 14)

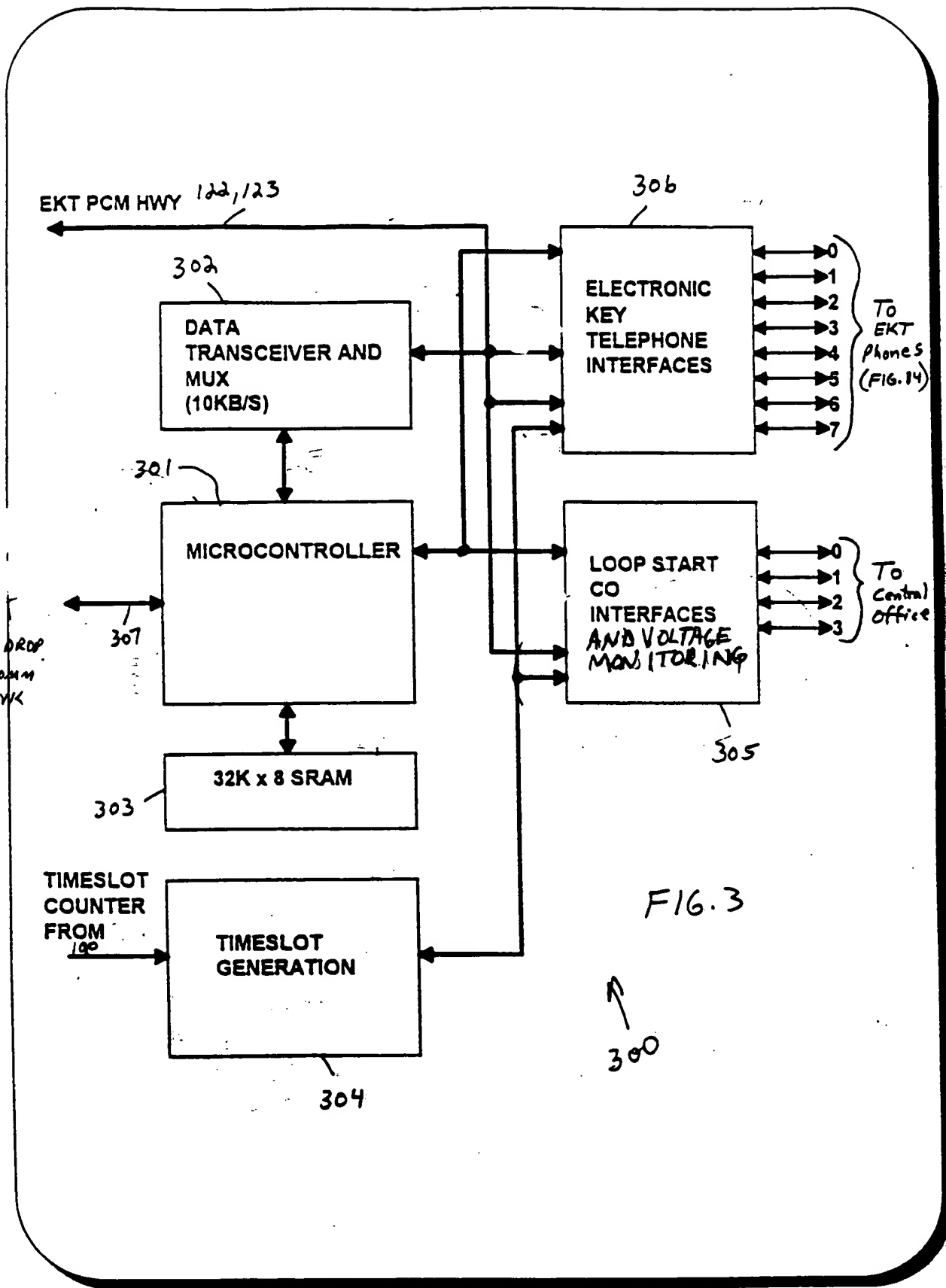
LOOP START  
CO  
INTERFACES  
AND VOLTAGE  
MONITORING

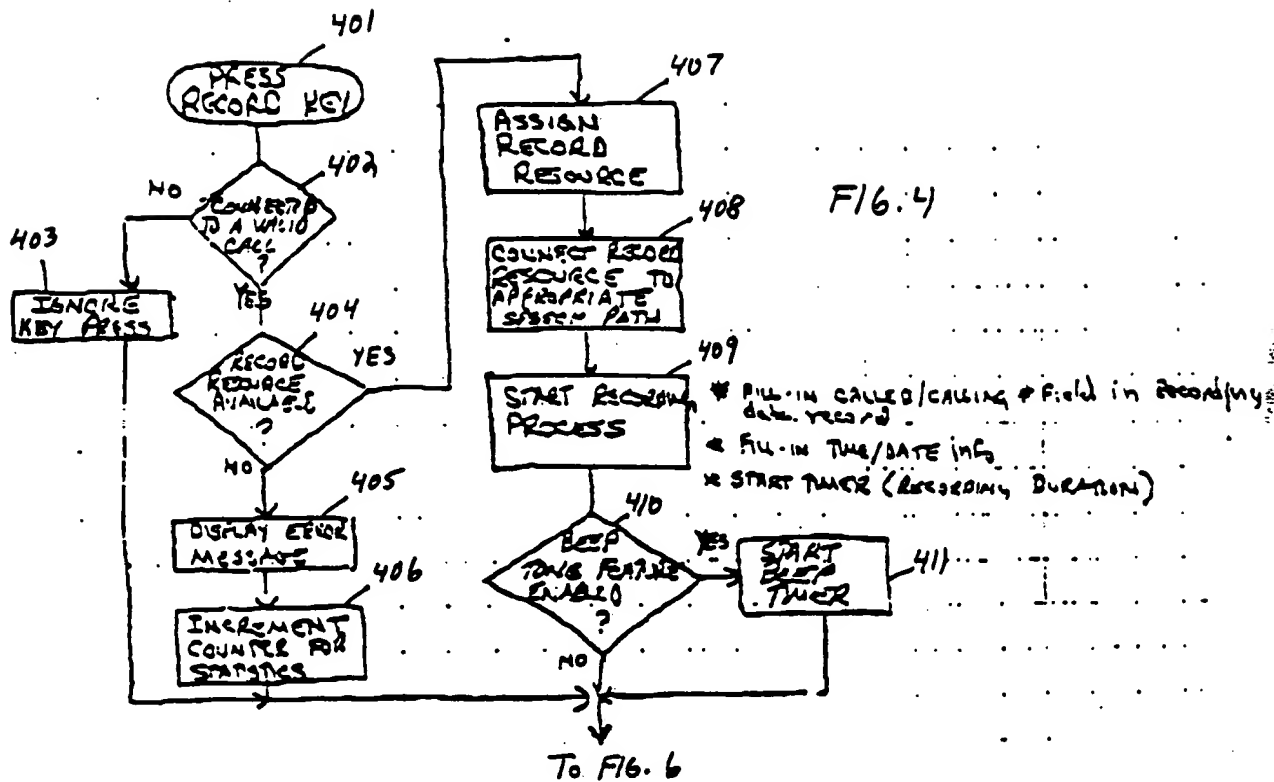
To  
Central  
Office

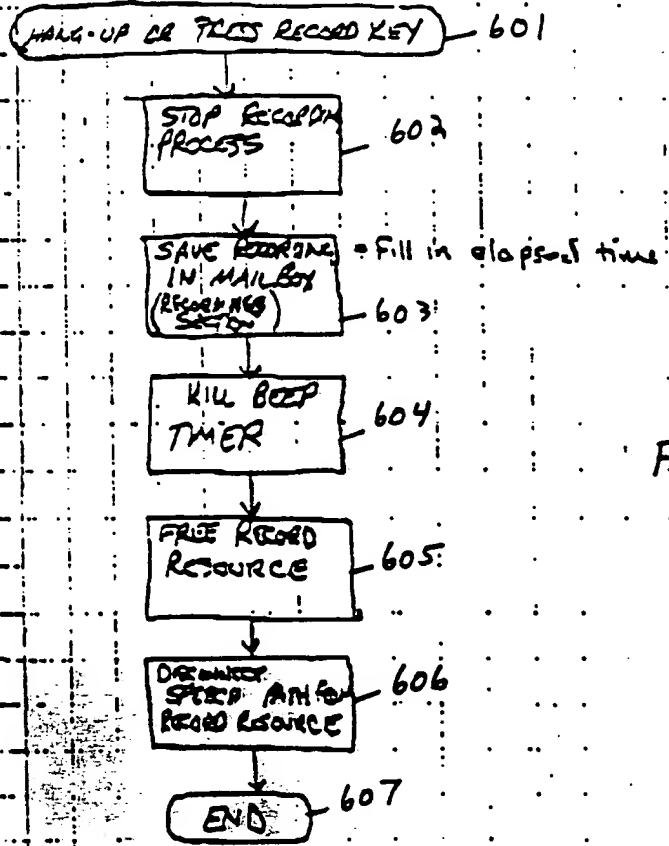
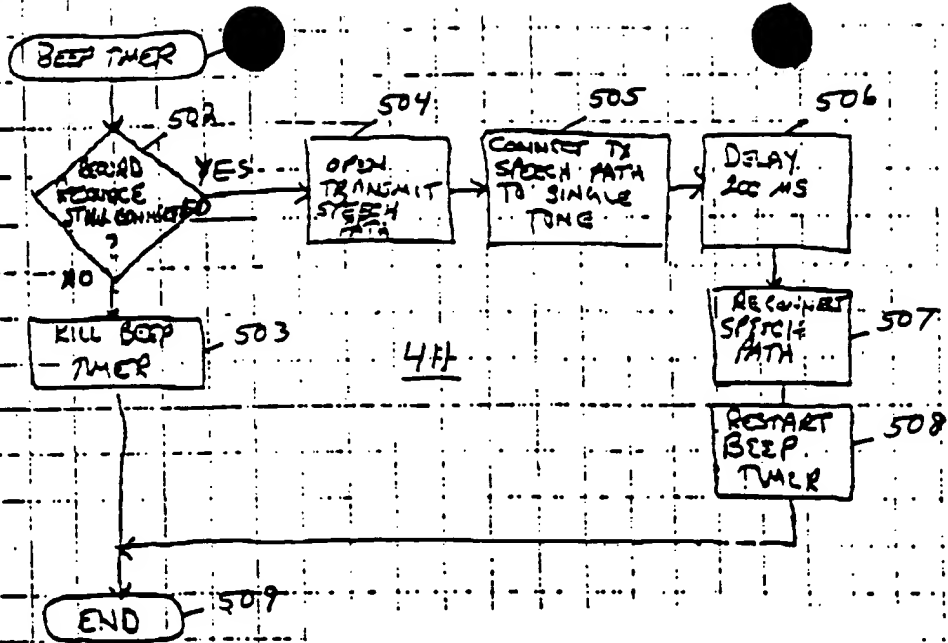
305

FIG. 3

300



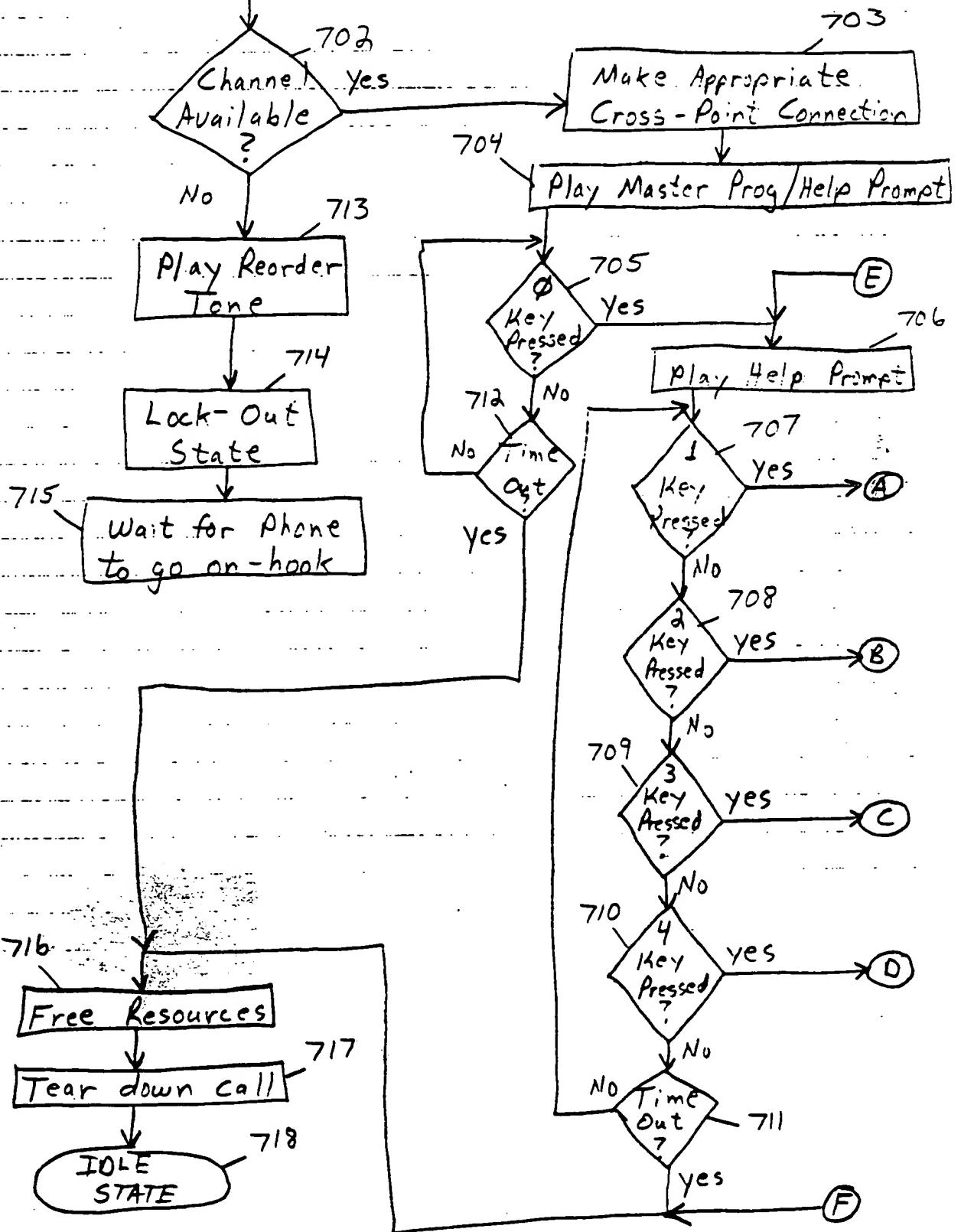




User Presses Prog/Help Key on Phone - 700

Assign a Play Channel - 701

FIG. 7A



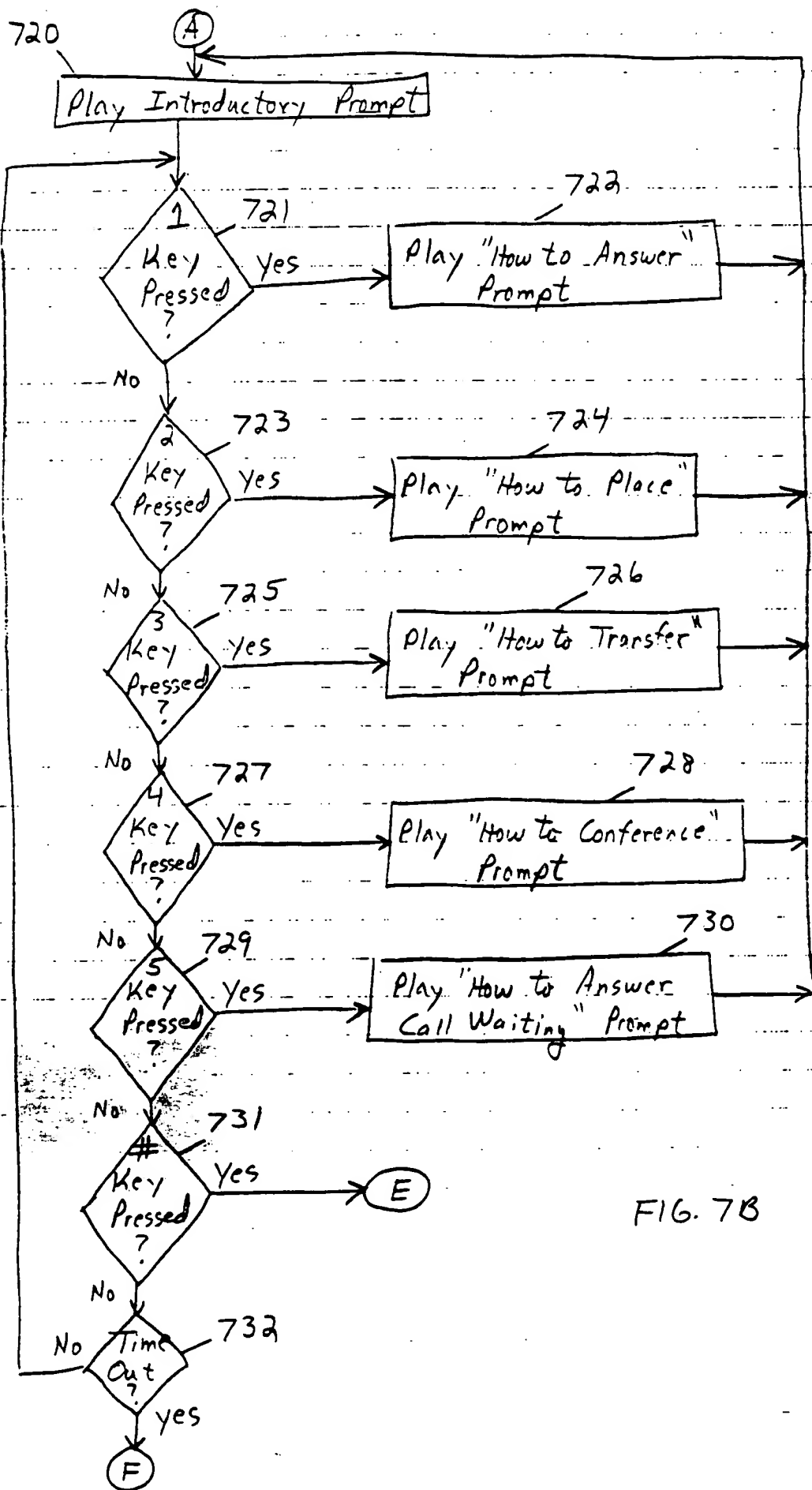


FIG. 7B

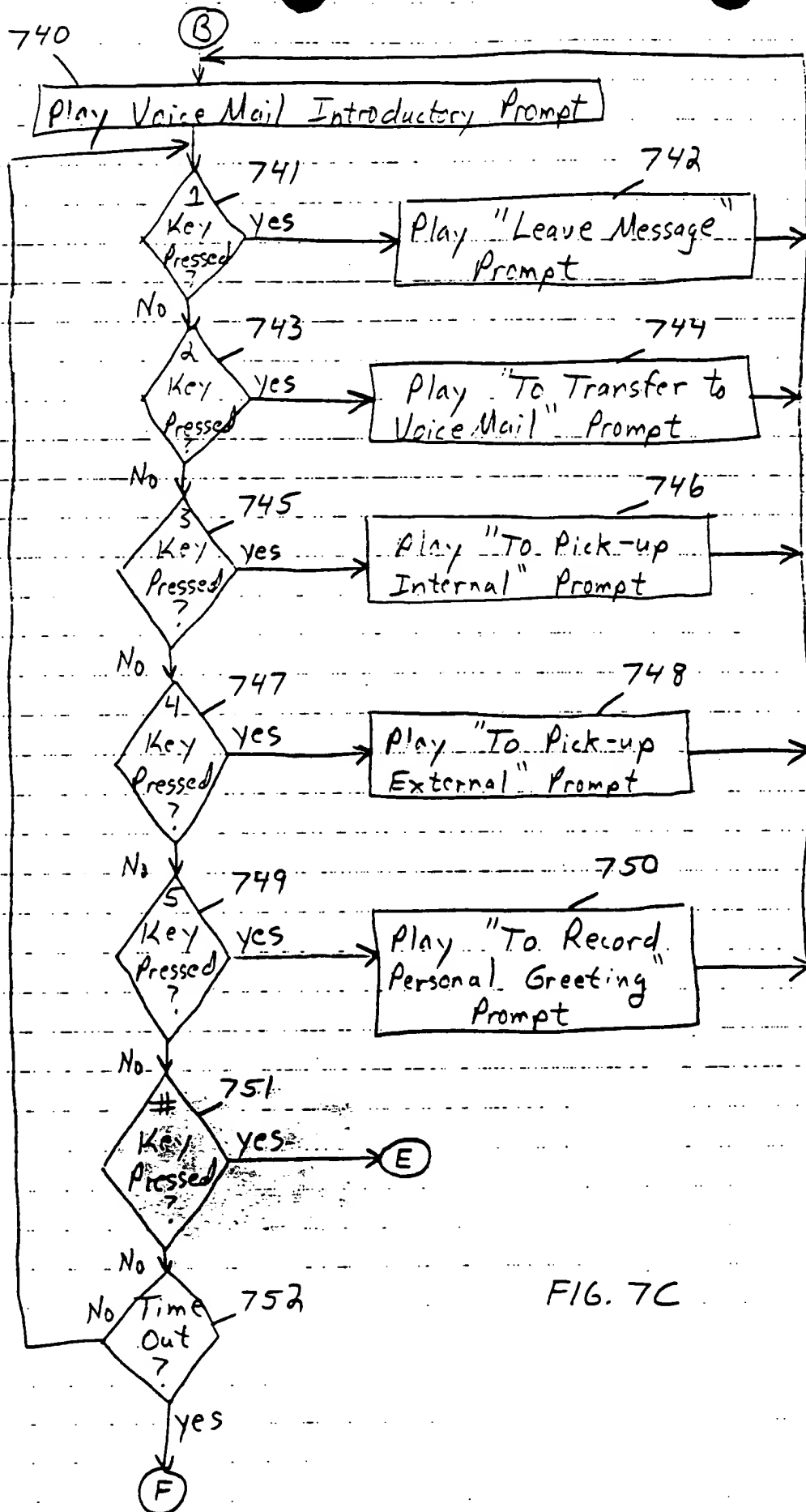


FIG. 7C



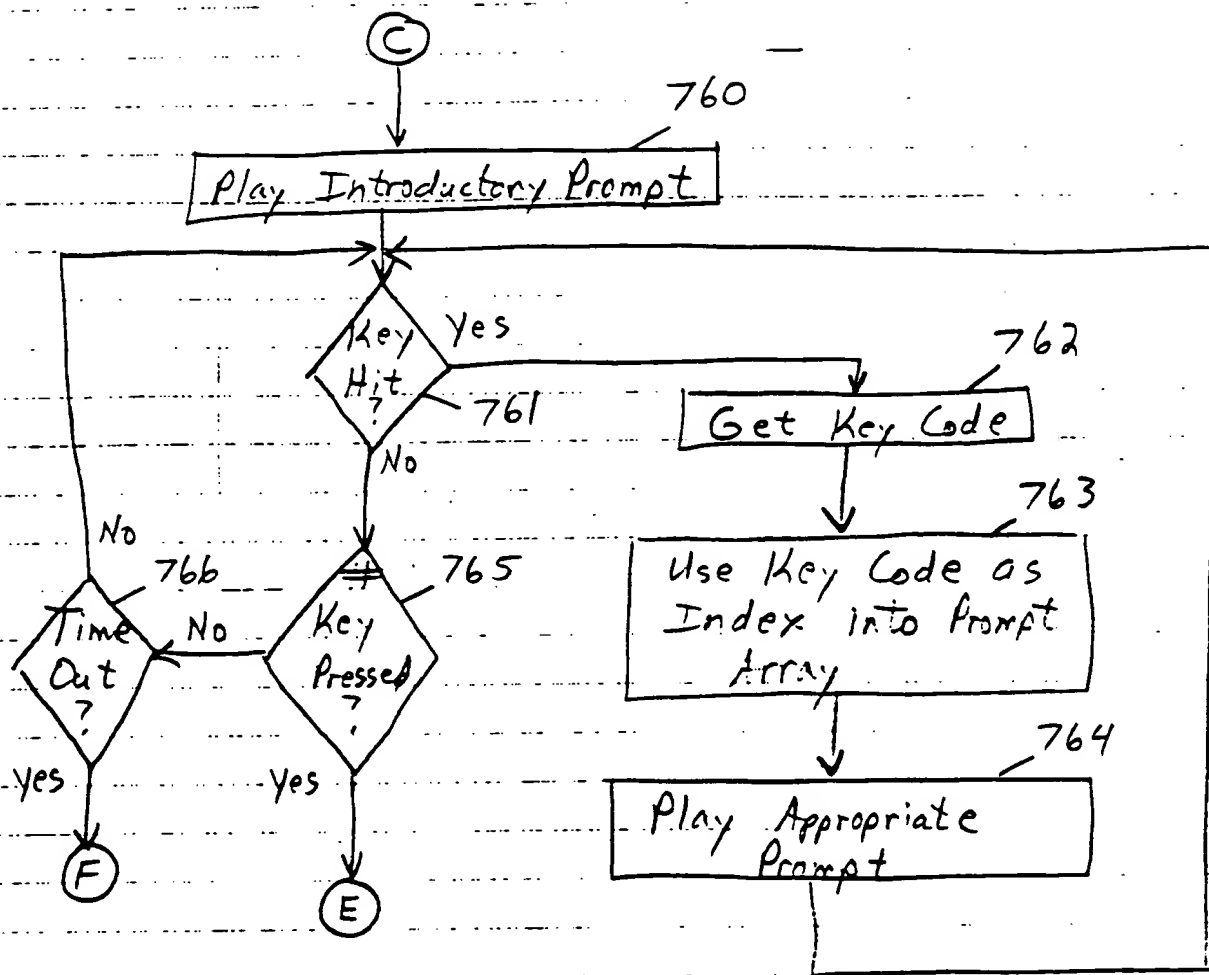


FIG. 7D

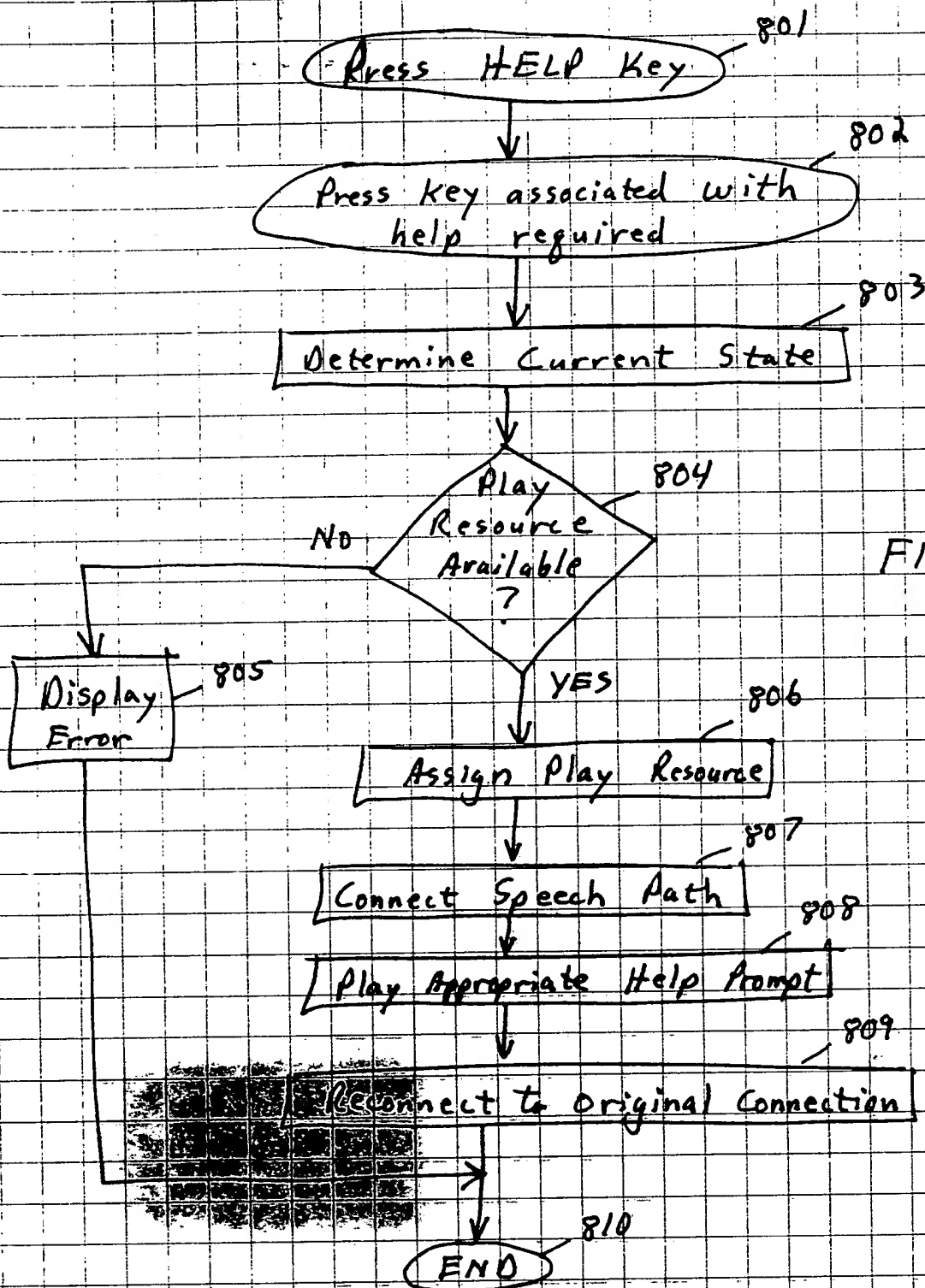
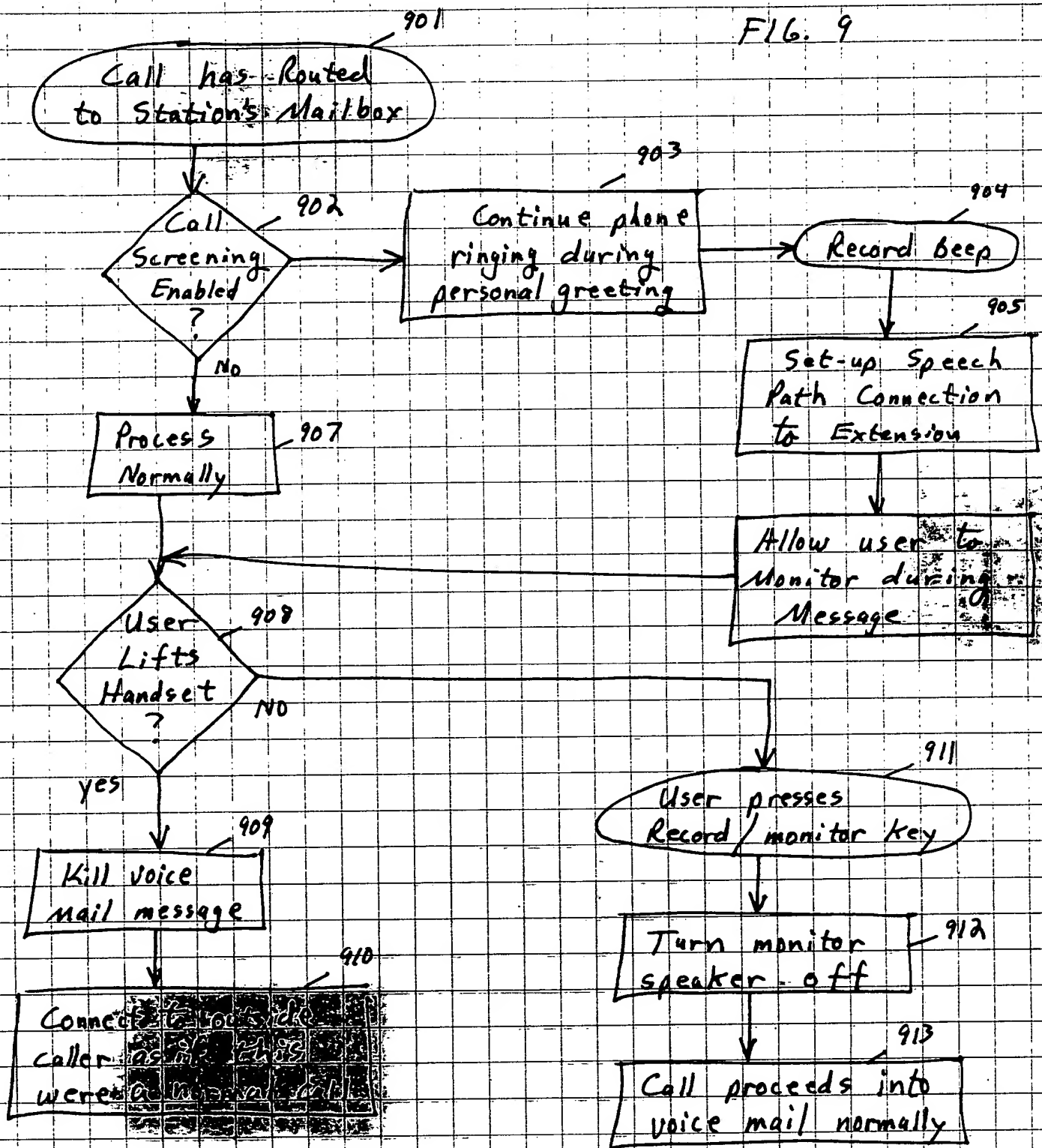


FIG. 9



20250303

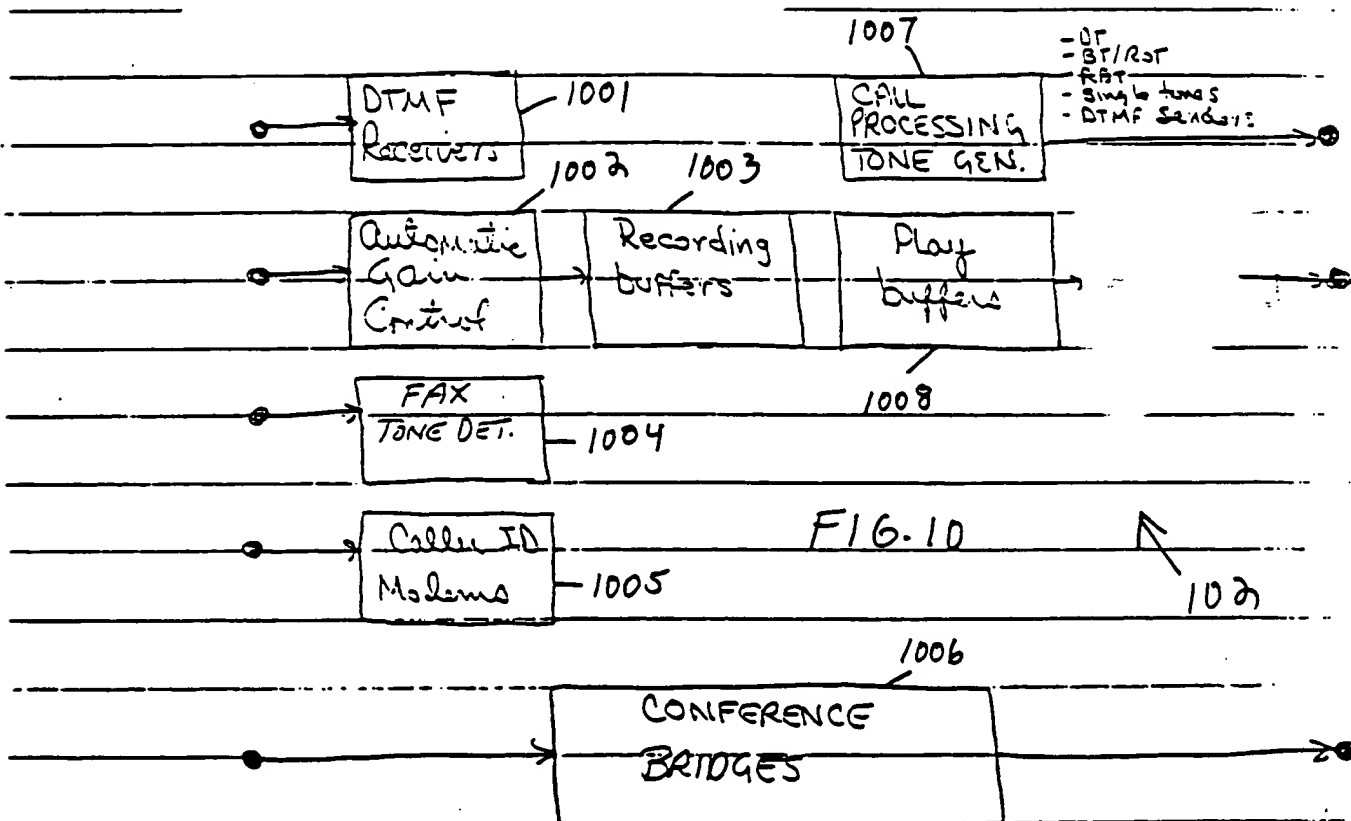


FIG. 11

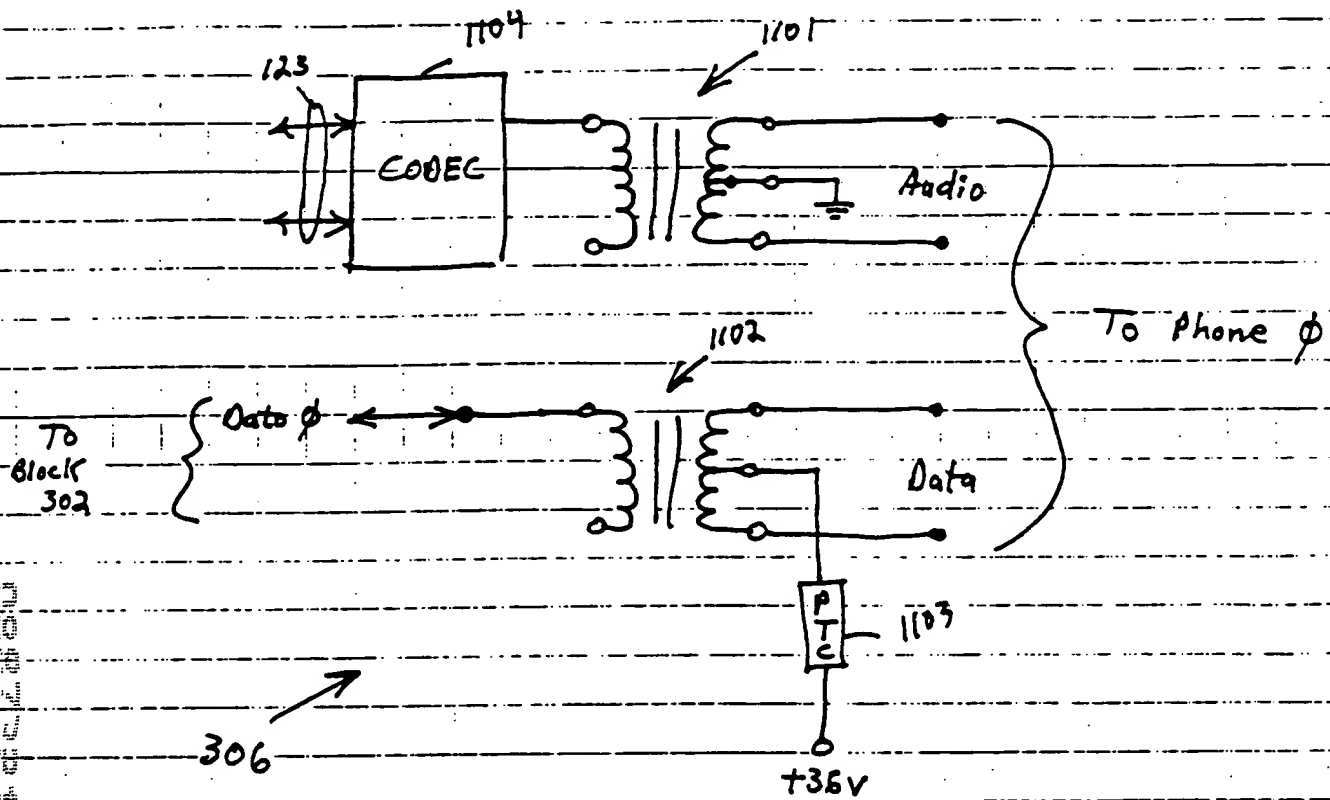
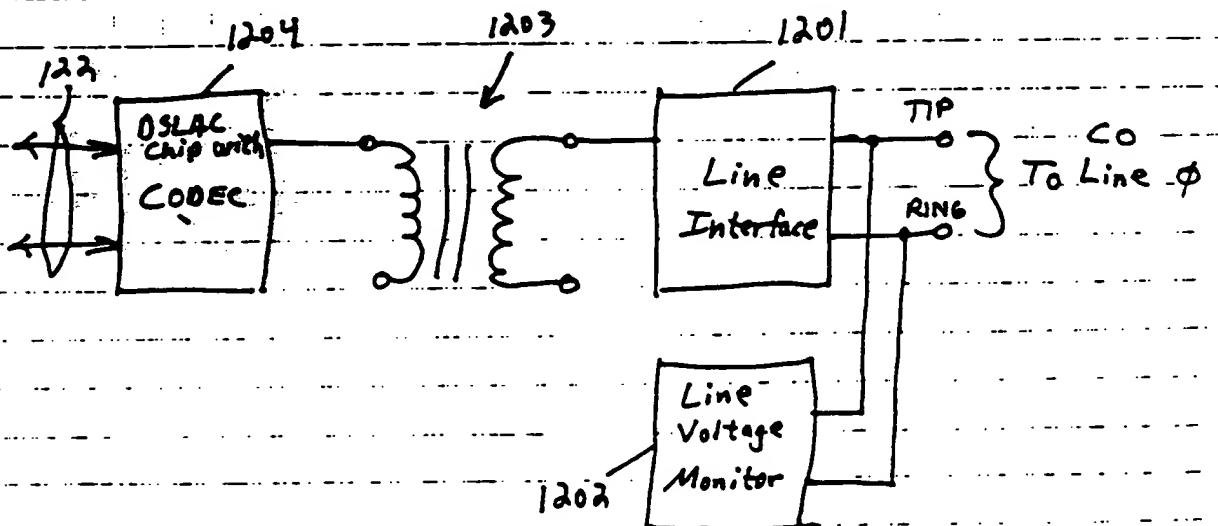


FIG. 12



20250303

FIG. 13  
PRIOR ART

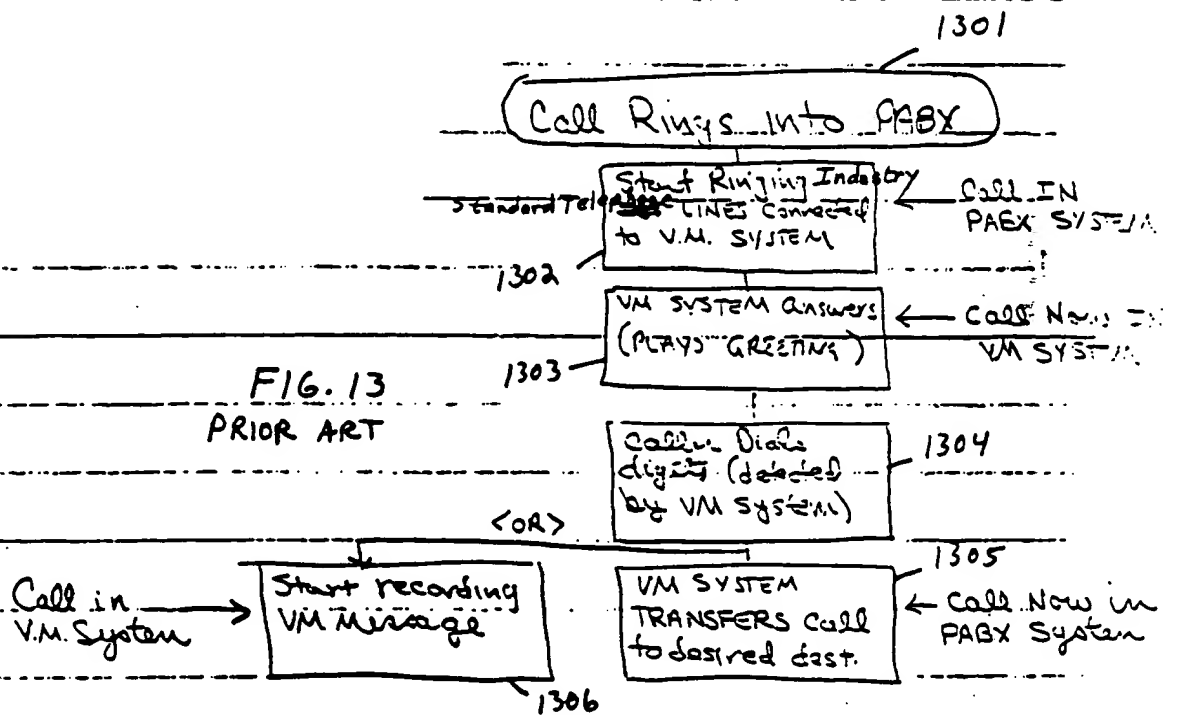
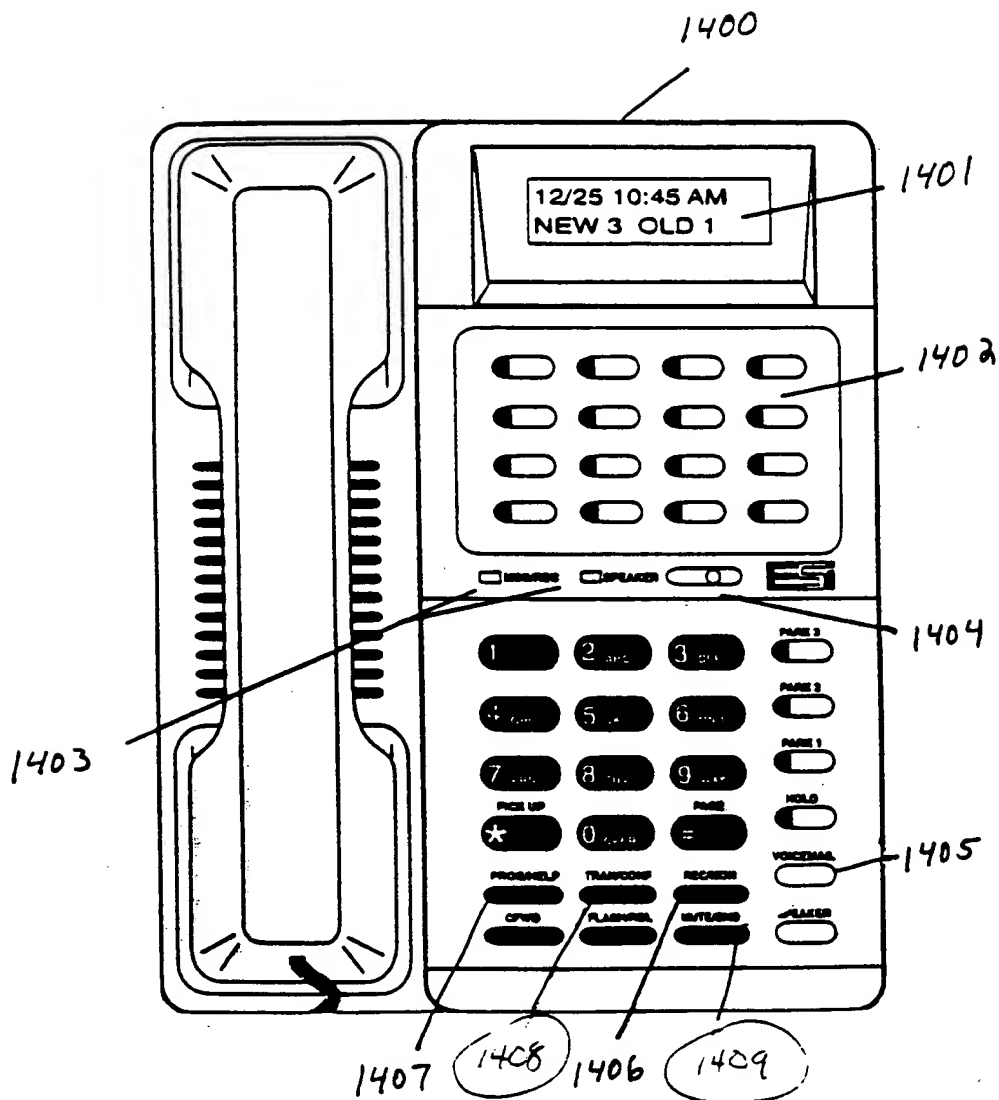


FIG. 14



Call Received on CO Line 1501

Digital Cross-Point Matrix  
Connects Call to an Available  
Play Channel, DTMF Receiver and Fax Tone Detector 1502

Microprocessor transfers Speech  
Data from Hard Disk to Play Buffer 1503

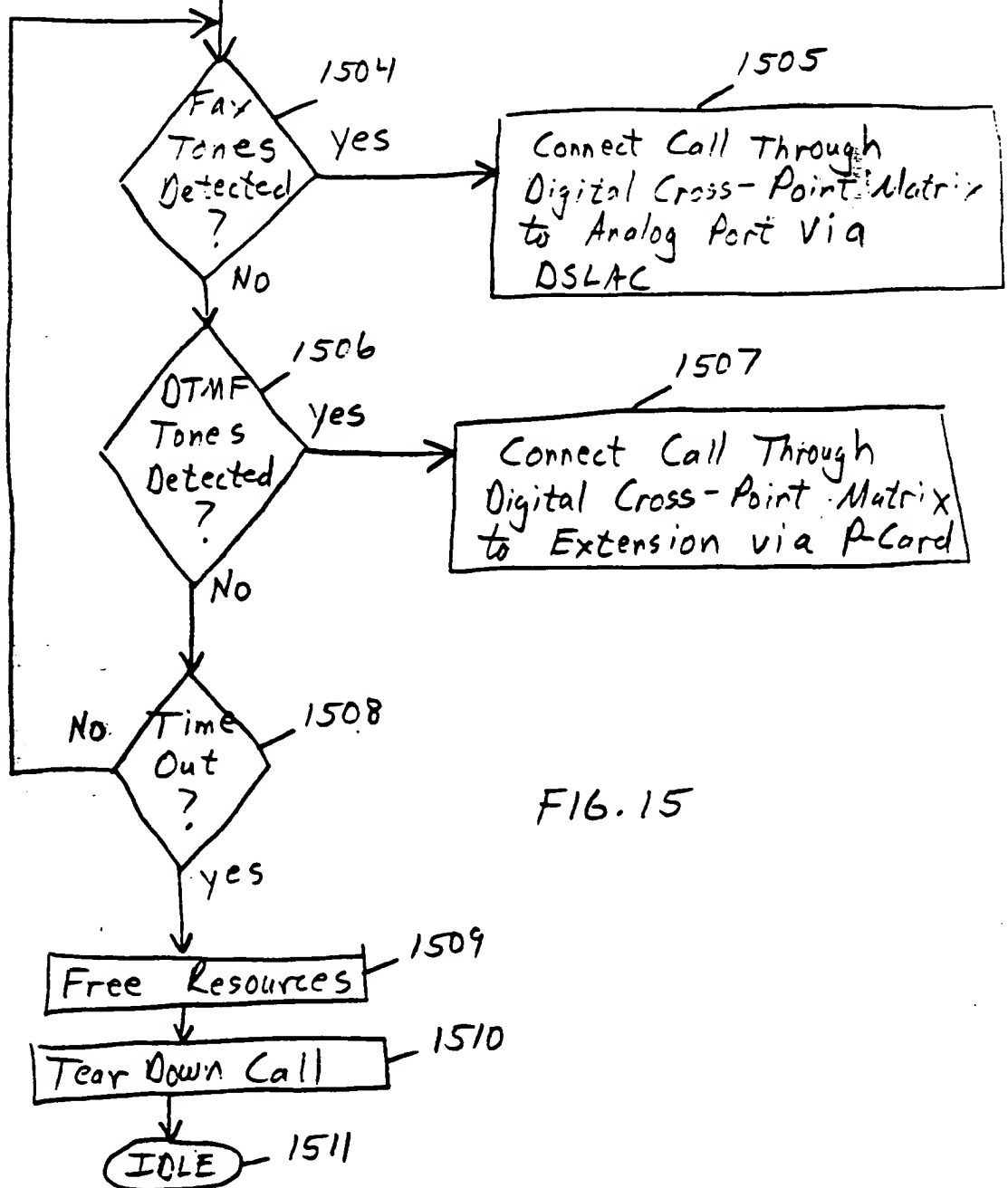


FIG. 15



User Listening to a Voice Mail Message  
(New or Old Voice Mail or Recording) 1601

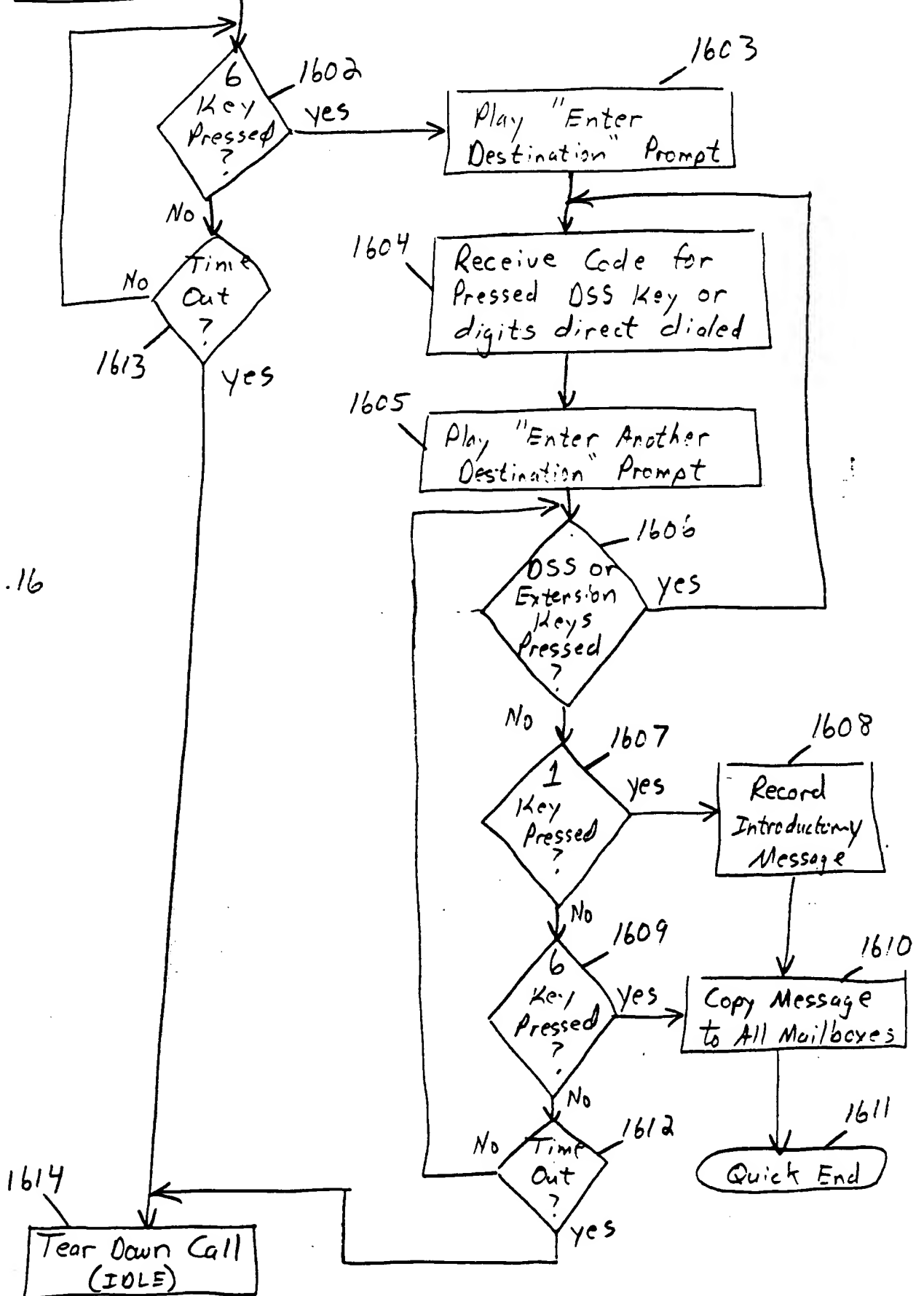


FIG. 16

user picks up idle phone to leave a new message in a number of destination mailboxes.

1701

go off hook  
(HANDSET OR SPEAKER)

1702

Press VM  
key

1703

Press DSS  
key of 1st party  
to receive message

1704

During Party's Pers.  
greeting Press  
another DSS

1705

NO  
done?  
YES

1706

at beep  
leave message

1707

Hang  
up

1708

Copy message to  
all destination  
mailboxes

1709

Quick End

1710

FIG. 17